

7.7 Radiated Spurious Emissions – Above 1 GHz

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-47 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-47. Radiated Limits

Test Procedures Used

ANSI C63.10-2020 – Subclause 6.6.4.3
KDB 558074 D01 v05r02 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

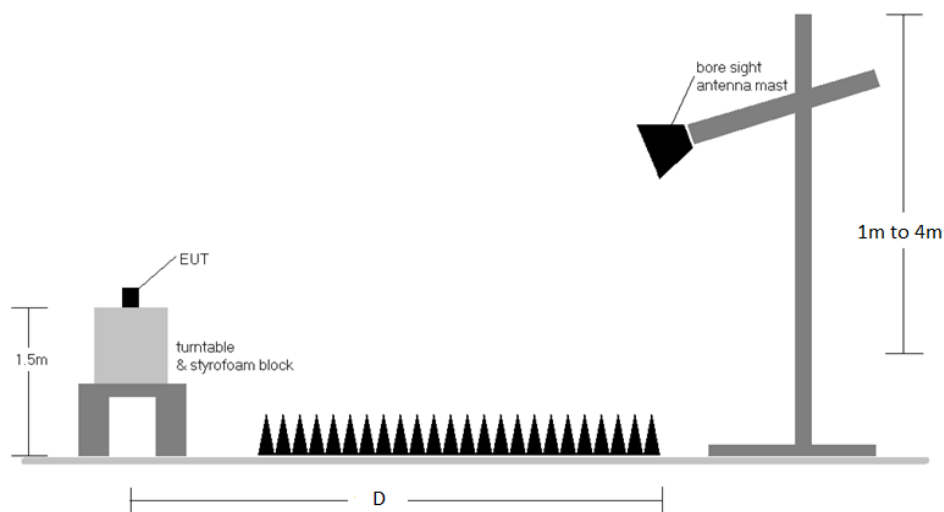


Figure 7-6. Radiated Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All Radiated Spurious Emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-47.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. All antenna configurations were investigated and only the worst case is reported.
10. The unit was tested with all possible modes and only the highest emission is reported.

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Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- AFCL $_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamplifier Gain}_{[dB]}$
- Margin $_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

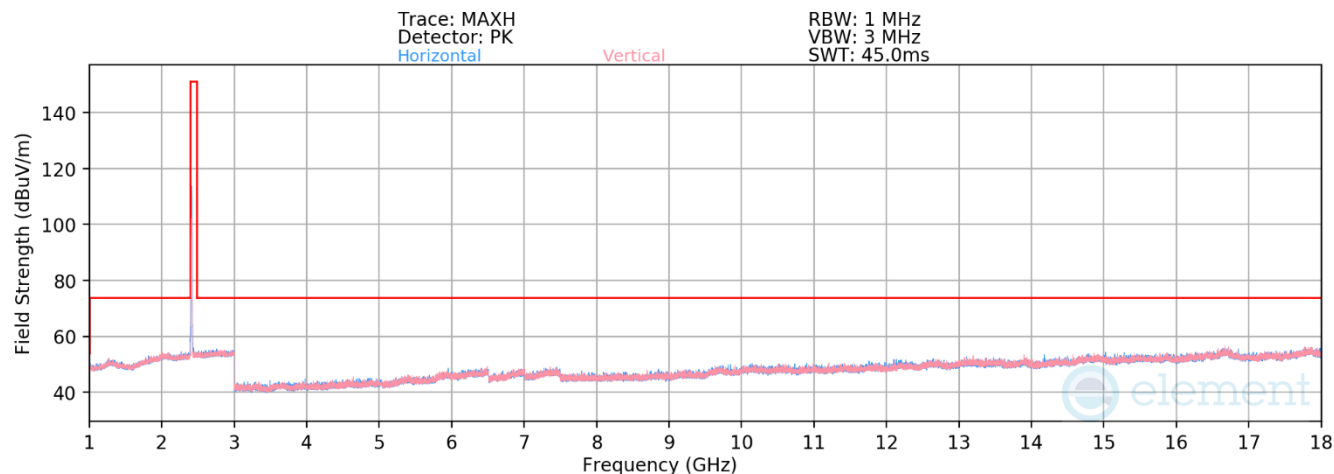
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7.4, 7.7.5, and 7.7.6 were calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.7.1 Antenna WF8 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-441. Radiated Spurious Emissions above 1GHz Antenna WF8 (802.11b – Ch. 1)

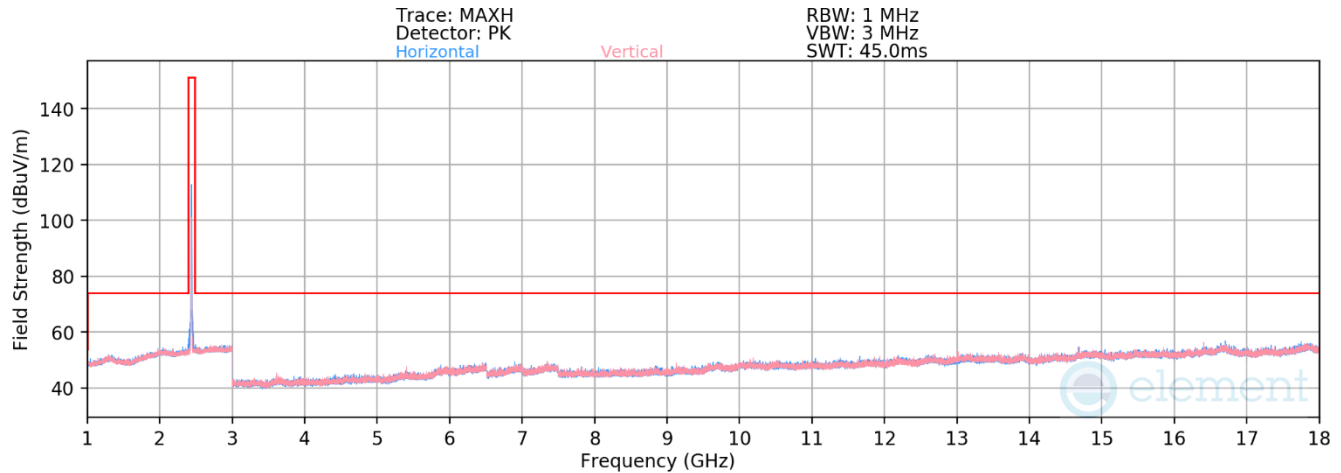
Mode: 802.11b
Data Rate: 11Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	H	-	-	-78.35	4.54	33.19	53.98	-20.79
4824.00	Peak	H	-	-	-66.70	4.54	44.84	73.98	-29.14
12060.00	Avg	H	-	-	-81.46	13.52	39.06	53.98	-14.92
12060.00	Peak	H	-	-	-70.42	13.52	50.10	73.98	-23.88

Table 7-48. Radiated Spurious Emission Measurements Antenna WF8

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Plot 7-442. Radiated Spurious Emissions above 1GHz Antenna WF8 (802.11b – Ch. 6)

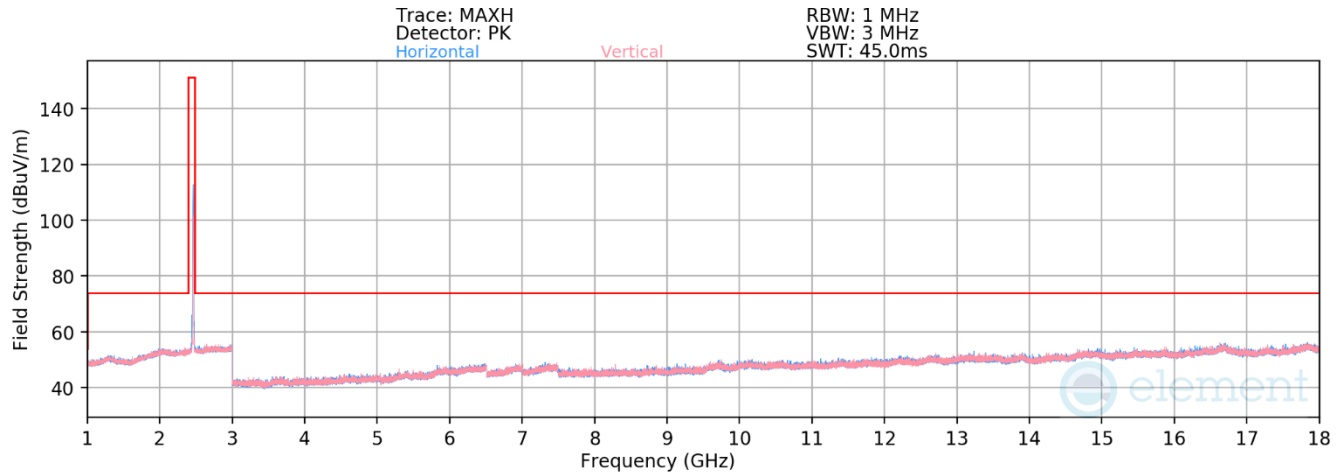
Mode: 802.11b
Data Rate: 11Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-78.08	4.68	33.60	53.98	-20.38
4874.00	Peak	H	-	-	-66.69	4.68	44.99	73.98	-28.99
7311.00	Avg	V	-	-	-79.61	9.55	36.94	53.98	-17.04
7311.00	Peak	V	-	-	-67.67	9.55	48.88	73.98	-25.10
12185.00	Avg	H	-	-	-81.33	14.59	40.26	53.98	-13.72
12185.00	Peak	H	-	-	-71.03	14.59	50.56	73.98	-23.42

Table 7-49. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-443. Radiated Spurious Emissions above 1GHz Antenna WF8 (802.11b – Ch. 11)

Mode: 802.11b
Data Rate: 11Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

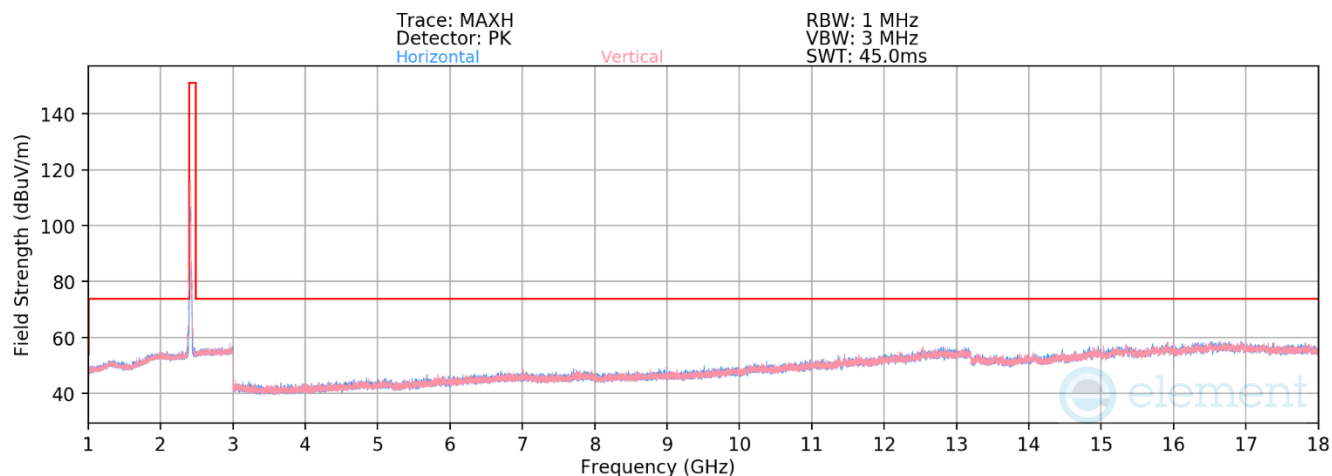
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-78.77	5.02	33.25	53.98	-20.73
4924.00	Peak	H	-	-	-67.32	5.02	44.70	73.98	-29.28
7386.00	Avg	V	-	-	-79.54	9.73	37.19	53.98	-16.79
7386.00	Peak	V	-	-	-68.28	9.73	48.45	73.98	-25.53
12310.00	Avg	H	-	-	-81.59	14.64	40.05	53.98	-13.93
12310.00	Peak	H	-	-	-71.31	14.64	50.33	73.98	-23.65

Table 7-50. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-444. Radiated Spurious Emissions above 1GHz Antenna WF8 (802.11ax(SU) – Ch. 1)

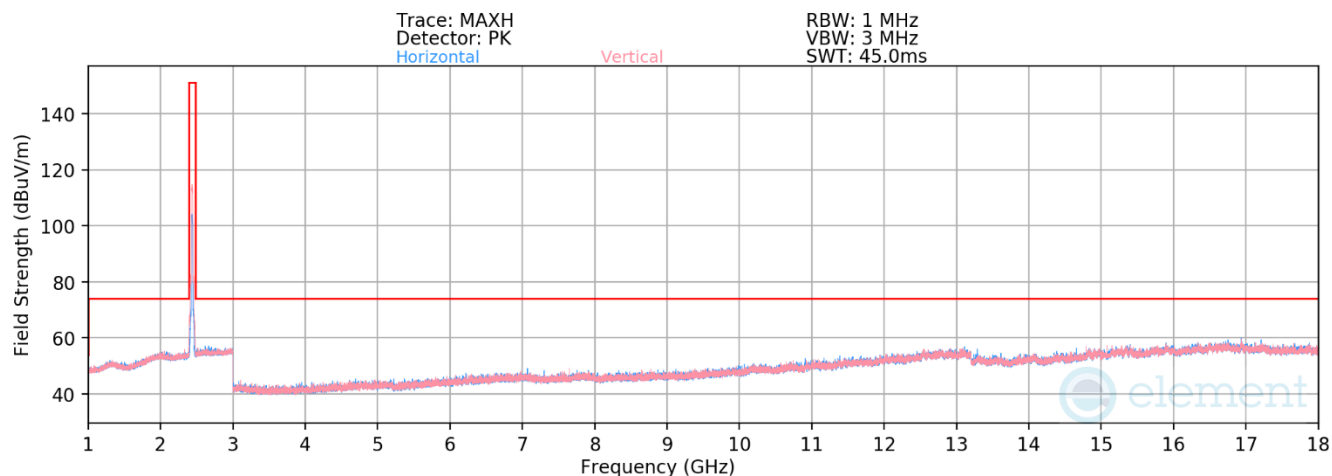
Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	-	-	-80.25	7.30	34.05	53.98	-19.93
4824.00	Peak	V	-	-	-69.27	7.30	45.03	73.98	-28.95
12060.00	Avg	V	-	-	-83.59	18.09	41.50	53.98	-12.48
12060.00	Peak	V	-	-	-72.24	18.09	52.85	73.98	-21.13

Table 7-51. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-445. Radiated Spurious Emissions above 1GHz Antenna WF8 (802.11ax(SU) – Ch. 6)

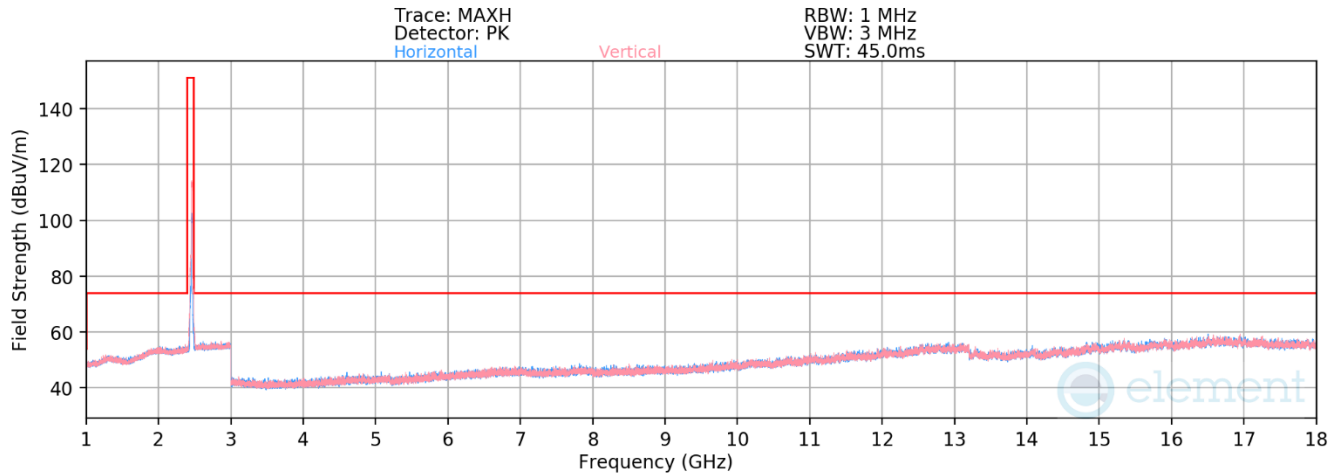
Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4874.00	Avg	V	-	-	-80.61	7.37	33.76	53.98	-20.22
4874.00	Peak	V	-	-	-69.33	7.37	45.04	73.98	-28.94
7311.00	Avg	V	-	-	-82.00	10.87	35.87	53.98	-18.11
7311.00	Peak	V	-	-	-70.89	10.87	46.98	73.98	-27.00
12185.00	Avg	V	-	-	-83.90	18.82	41.92	53.98	-12.06
12185.00	Peak	V	-	-	-72.74	18.82	53.08	73.98	-20.90

Table 7-52. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-446. Radiated Spurious Emissions above 1GHz Antenna WF8 (802.11ax(SU) – Ch. 11)

Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	-	-	-80.35	7.30	33.95	53.98	-20.03
4924.00	Peak	V	-	-	-69.54	7.30	44.76	73.98	-29.22
7386.00	Avg	V	-	-	-81.63	10.68	36.05	53.98	-17.93
7386.00	Peak	V	-	-	-70.13	10.68	47.55	73.98	-26.43
12310.00	Avg	V	-	-	-83.92	18.92	42.00	53.98	-11.98
12310.00	Peak	V	-	-	-73.11	18.92	52.81	73.98	-21.17

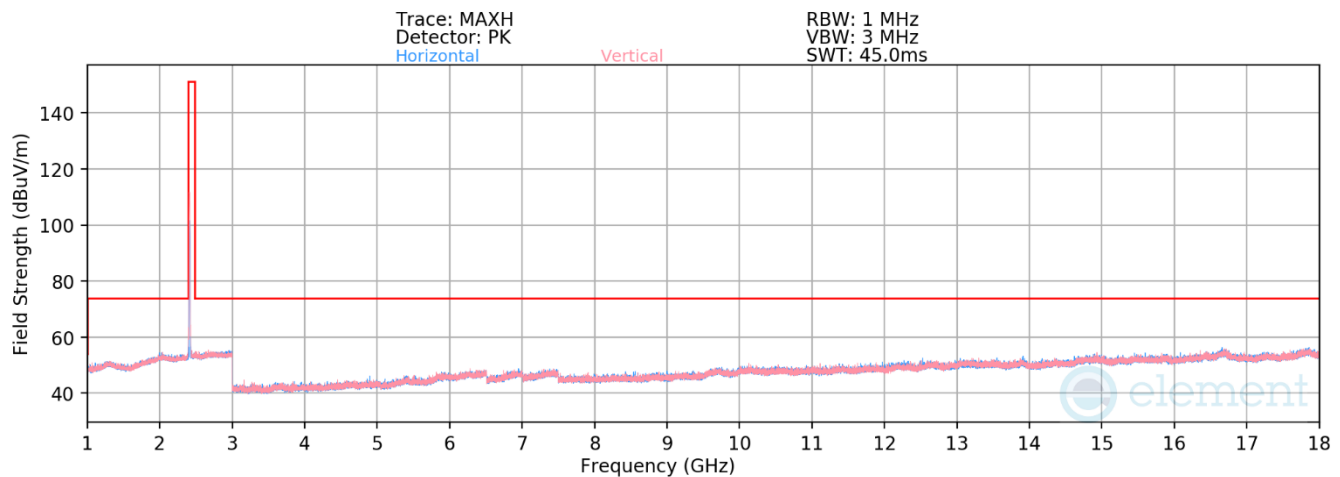
Table 7-53. Radiated Spurious Emission Measurements Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.2 Antenna WF7 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-447. Radiated Spurious Emissions above 1GHz Antenna WF7 (802.11b – Ch. 1)

Mode: 802.11b
Data Rate: 11Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

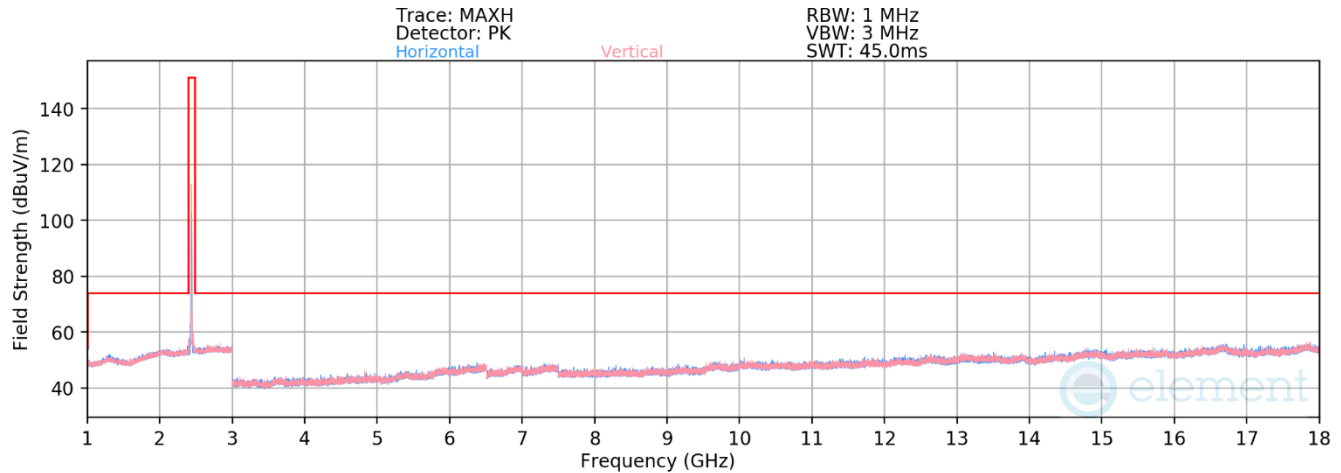
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4824.00	Avg	V	-	-	-78.30	4.54	33.24	53.98	-20.74
4824.00	Peak	V	-	-	-66.96	4.54	44.58	73.98	-29.40
12060.00	Avg	V	-	-	-81.54	13.52	38.98	53.98	-15.00
12060.00	Peak	V	-	-	-70.88	13.52	49.64	73.98	-24.34

Table 7-54. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-448. Radiated Spurious Emissions above 1GHz Antenna WF7 (802.11b – Ch. 6)

Mode: 802.11b
Data Rate: 11Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6

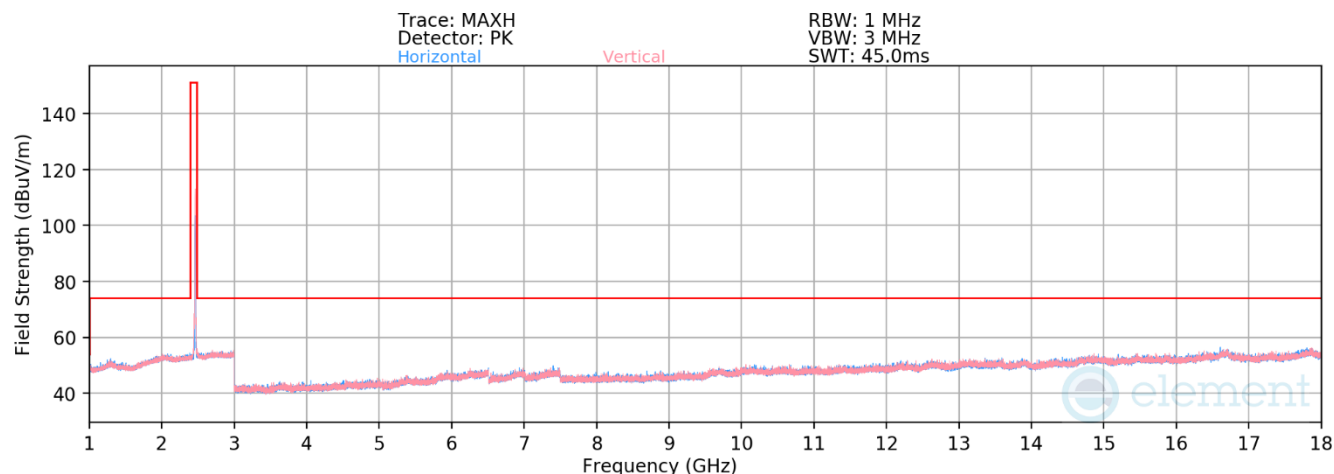
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4874.00	Avg	V	-	-	-78.30	4.68	33.38	53.98	-20.60
4874.00	Peak	V	-	-	-66.96	4.68	44.72	73.98	-29.26
7311.00	Avg	V	-	-	-79.62	9.55	36.93	53.98	-17.05
7311.00	Peak	V	-	-	-68.07	9.55	48.48	73.98	-25.50
12185.00	Avg	V	-	-	-81.56	14.59	40.03	53.98	-13.95
12185.00	Peak	V	-	-	-70.89	14.59	50.70	73.98	-23.28

Table 7-55. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2993 IC: 579C-A2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-449. Radiated Spurious Emissions above 1GHz Antenna WF7 (802.11b – Ch. 11)

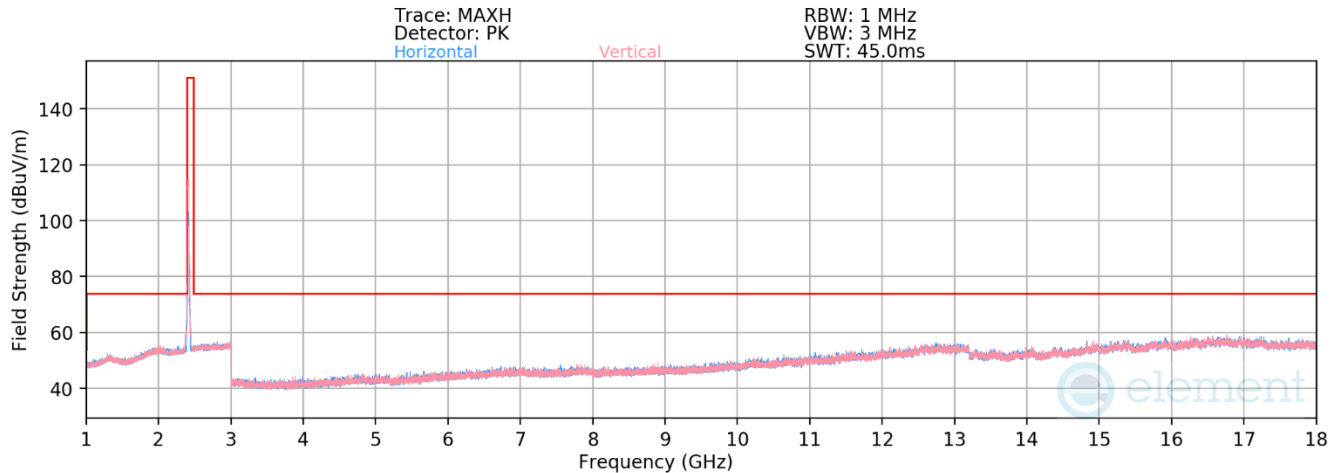
Mode: 802.11b
Data Rate: 11Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	-	-	-78.78	5.02	33.24	53.98	-20.74
4924.00	Peak	V	-	-	-66.74	5.02	45.28	73.98	-28.70
7386.00	Avg	V	-	-	-79.81	9.73	36.92	53.98	-17.06
7386.00	Peak	V	-	-	-68.39	9.73	48.34	73.98	-25.64
12310.00	Avg	V	-	-	-81.83	14.64	39.81	53.98	-14.17
12310.00	Peak	V	-	-	-70.39	14.64	51.25	73.98	-22.73

Table 7-56. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-450. Radiated Spurious Emissions above 1GHz Antenna WF7 (802.11ax(SU) – Ch. 1)

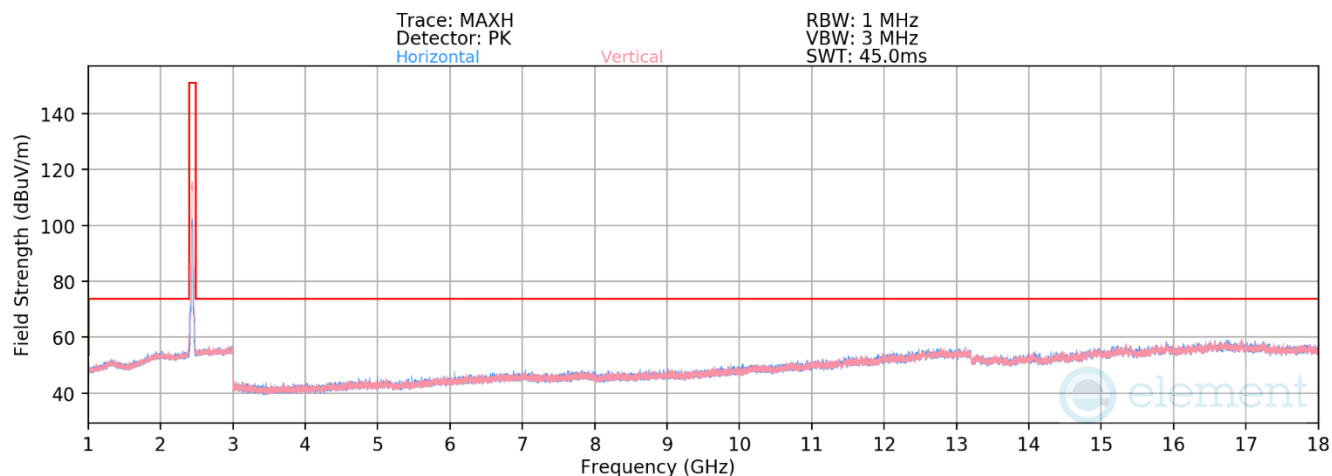
Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4824.00	Avg	V	-	-	-80.16	7.30	34.14	53.98	-19.84
4824.00	Peak	V	-	-	-69.39	7.30	44.91	73.98	-29.07
12060.00	Avg	V	-	-	-83.96	18.95	41.99	53.98	-11.99
12060.00	Peak	V	-	-	-73.15	18.95	52.80	73.98	-21.18

Table 7-57. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-451. Radiated Spurious Emissions above 1GHz Antenna WF7 (802.11ax(SU) – Ch. 6)

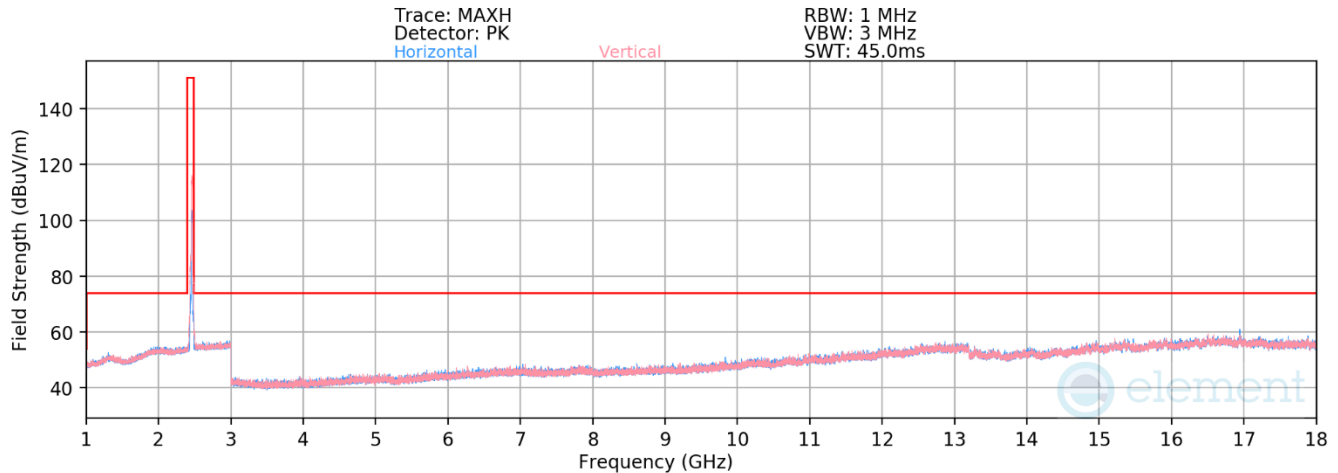
Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	-	-	-82.30	9.22	33.92	53.98	-20.06
4874.00	Peak	V	-	-	-71.50	9.22	44.72	73.98	-29.26
7311.00	Avg	V	-	-	-81.83	10.87	36.04	53.98	-17.94
7311.00	Peak	V	-	-	-70.72	10.87	47.15	73.98	-26.83
12185.00	Avg	V	-	-	-83.83	18.76	41.93	53.98	-12.05
12185.00	Peak	V	-	-	-72.36	18.76	53.40	73.98	-20.58

Table 7-58. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2993 IC: 579C-A2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-452. Radiated Spurious Emissions above 1GHz Antenna WF7 (802.11ax(SU) – Ch. 11)

Mode: 802.11ax(SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	V	-	-	-80.63	7.16	33.53	53.98	-20.45
4924.00	Peak	V	-	-	-68.66	7.16	45.50	73.98	-28.48
7386.00	Avg	V	-	-	-81.41	10.68	36.27	53.98	-17.71
7386.00	Peak	V	-	-	-70.69	10.68	46.99	73.98	-26.99
12310.00	Avg	V	-	-	-83.54	18.48	41.94	53.98	-12.04
12310.00	Peak	V	-	-	-72.36	18.48	53.12	73.98	-20.86

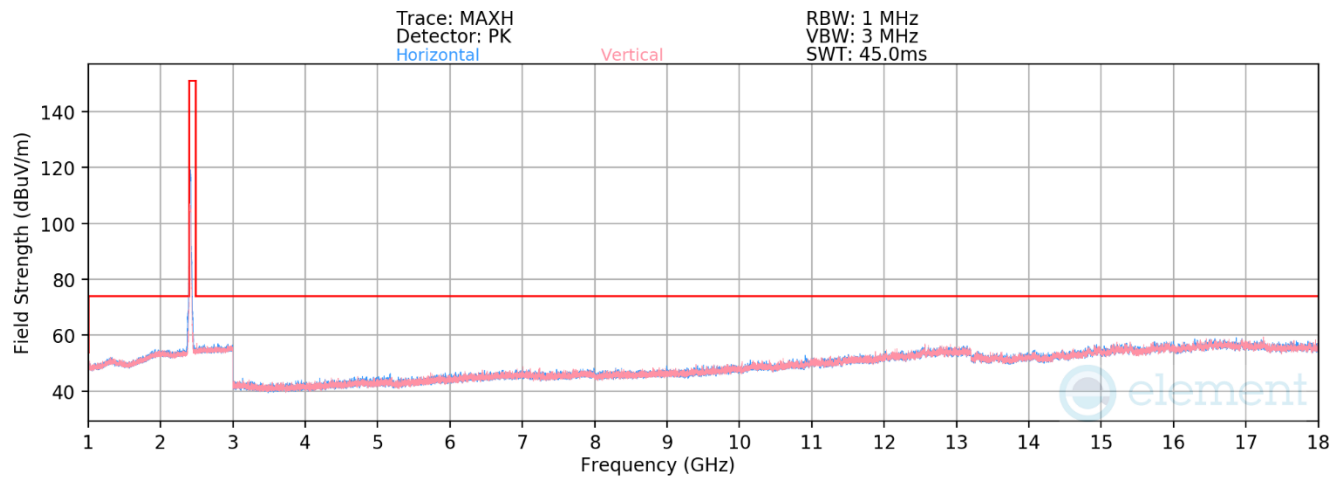
Table 7-59. Radiated Spurious Emission Measurements Antenna WF7

FCC ID: BCGA2993 IC: 579C-A2993			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device		Page 284 of 431

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7.7.3 CDD Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-453. Radiated Spurious Emissions above 1GHz CDD (802.11n – Ch. 1)

Mode: 802.11n
Data Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

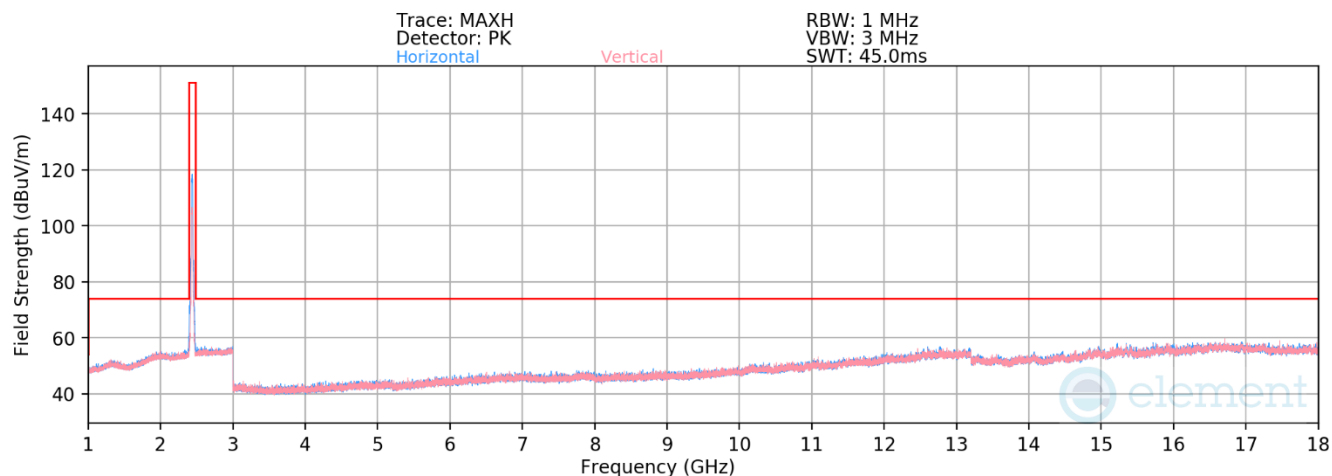
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4824.00	Avg	H	-	-	-80.03	6.94	33.91	53.98	-20.07
4824.00	Peak	H	-	-	-68.55	6.94	45.39	73.98	-28.59
12060.00	Avg	H	-	-	-83.39	18.18	41.79	53.98	-12.19
12060.00	Peak	H	-	-	-72.64	18.18	52.54	73.98	-21.44

Table 7-60. Radiated Spurious Emission Measurements CDD

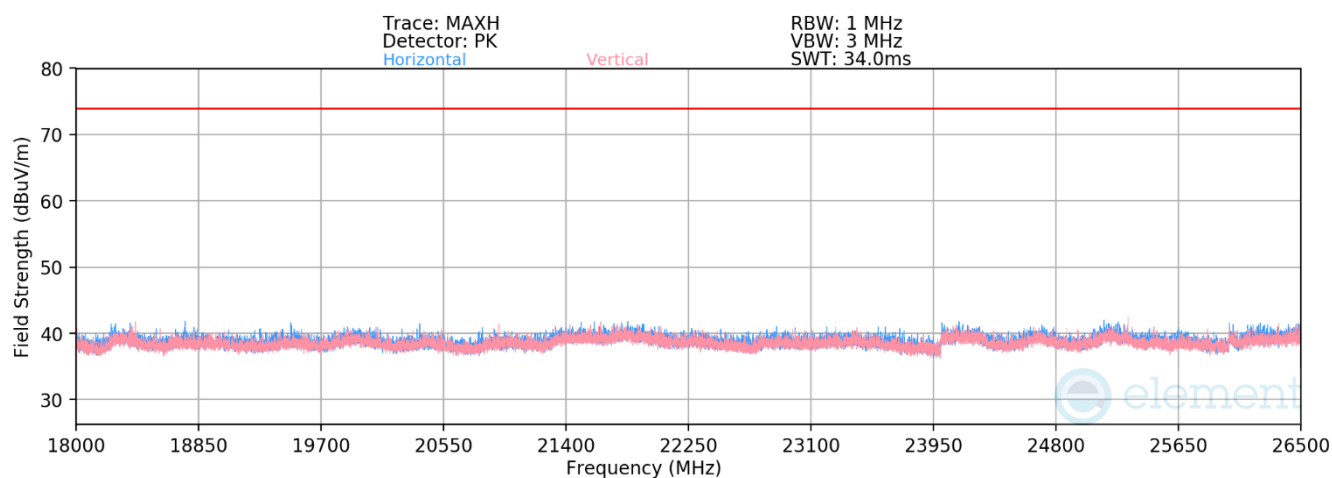
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 285 of 431

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Plot 7-454. Radiated Spurious Emissions above 1GHz CDD (802.11n – Ch. 6)



Plot 7-455. Radiated Spurious Emissions above 18GHz CDD (802.11n – Ch.6)

FCC ID: BCGA2993 IC: 579C-A2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 286 of 431

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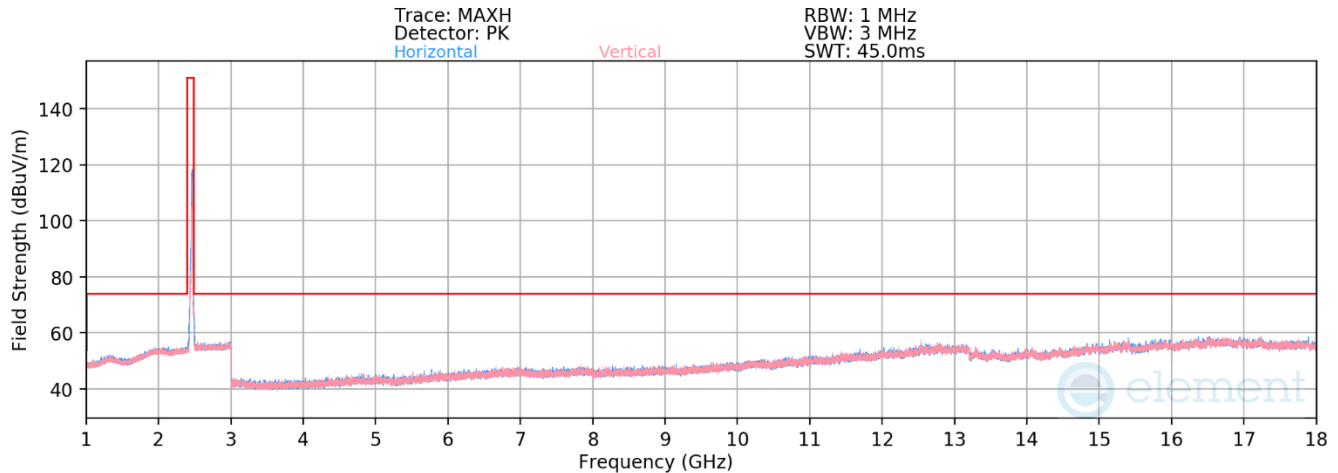
Mode: 802.11n
 Data Rate: MCS8
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-80.50	7.29	33.79	53.98	-20.19
4874.00	Peak	H	-	-	-69.33	7.29	44.96	73.98	-29.02
7311.00	Avg	H	-	-	-81.84	10.87	36.03	53.98	-17.95
7311.00	Peak	H	-	-	-70.56	10.87	47.31	73.98	-26.67
12185.00	Avg	H	-	-	-83.69	18.82	42.13	53.98	-11.85
12185.00	Peak	H	-	-	-73.17	18.82	52.65	73.98	-21.33

Table 7-61. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 287 of 431

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Plot 7-456. Radiated Spurious Emissions above 1GHz CDD (802.11n – Ch. 11)

Mode: 802.11n
Data Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

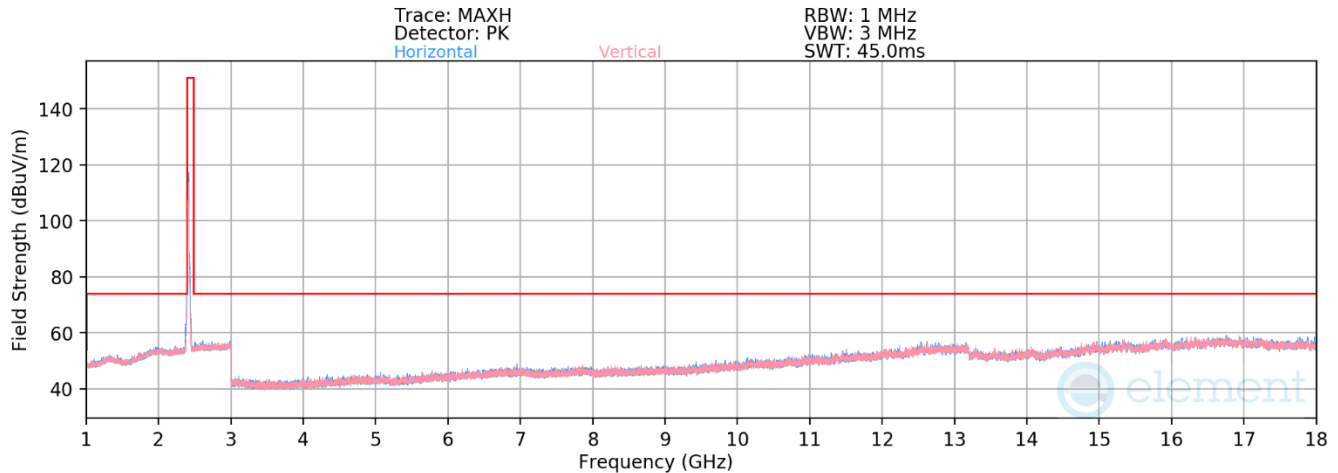
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4924.00	Avg	H	-	-	-80.40	7.16	33.76	53.98	-20.22
4924.00	Peak	H	-	-	-69.43	7.16	44.73	73.98	-29.25
7386.00	Avg	H	-	-	-81.93	10.98	36.05	53.98	-17.93
7386.00	Peak	H	-	-	-70.61	10.98	47.37	73.98	-26.61
12310.00	Avg	H	-	-	-83.47	18.48	42.01	53.98	-11.97
12310.00	Peak	H	-	-	-72.37	18.48	53.11	73.98	-20.87

Table 7-62. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 288 of 431

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Plot 7-457. Radiated Spurious Emissions above 1GHz CDD (802.11ax (SU) – Ch. 1)

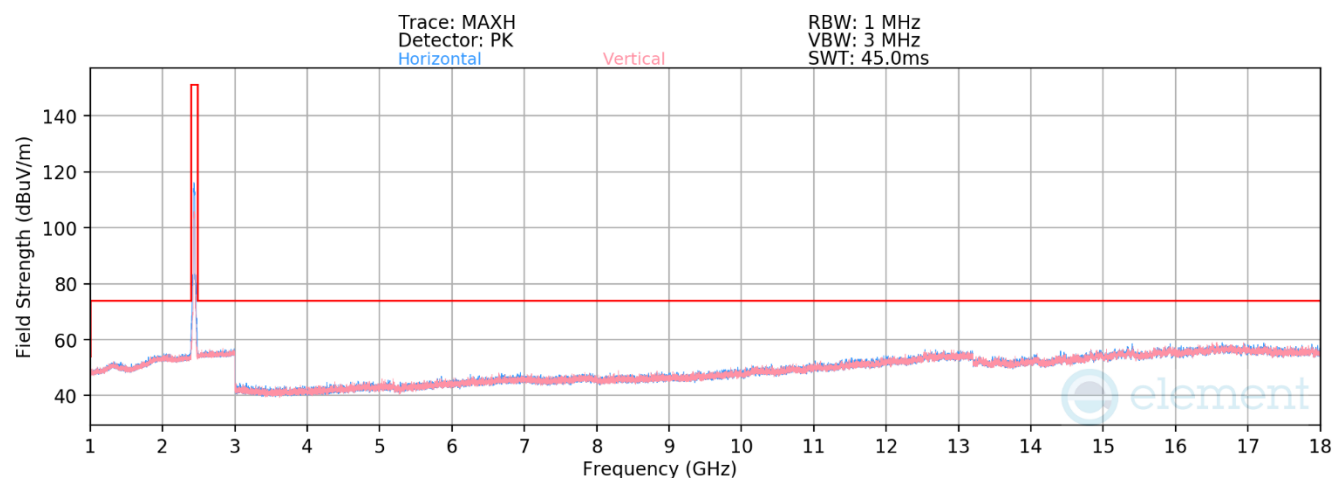
Mode: 802.11ax (SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	-	-	-80.19	7.29	34.10	53.98	-19.88
4824.00	Peak	V	-	-	-69.22	7.29	45.07	73.98	-28.91
12060.00	Avg	V	-	-	-83.76	18.62	41.86	53.98	-12.12
12060.00	Peak	V	-	-	-72.49	18.62	53.13	73.98	-20.85

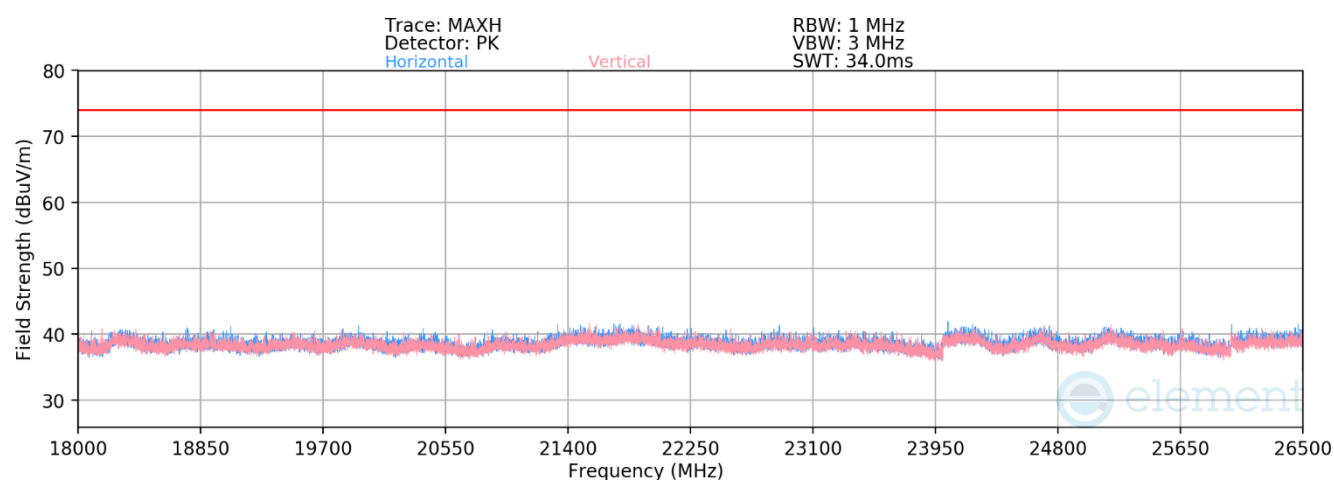
Table 7-63. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 289 of 431

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Plot 7-458. Radiated Spurious Emissions above 1GHz CDD (802.11ax (SU) – Ch. 6)



Plot 7-459. Radiated Spurious Emissions above 18GHz CDD (802.11ax (SU) – Ch.6)

FCC ID: BCGA2993 IC: 579C-A2993	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 290 of 431

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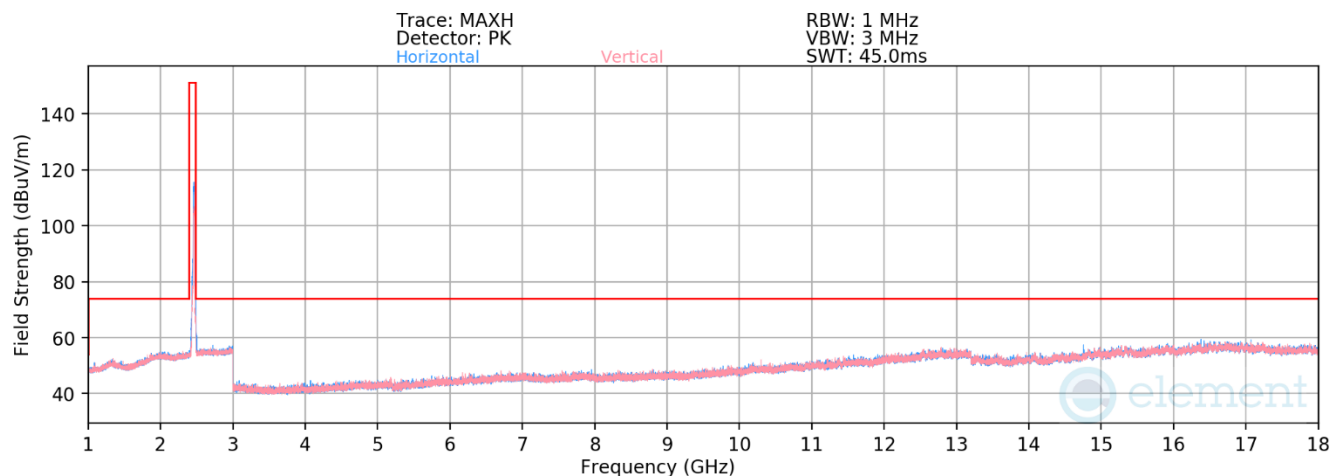
Mode: 802.11ax (SU)
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	-	-	-80.44	7.28	33.84	53.98	-20.14
4874.00	Peak	V	-	-	-69.32	7.28	44.96	73.98	-29.02
7311.00	Avg	V	-	-	-81.71	10.68	35.97	53.98	-18.01
7311.00	Peak	V	-	-	-70.56	10.68	47.12	73.98	-26.86
12185.00	Avg	V	-	-	-83.92	18.82	41.90	53.98	-12.08
12185.00	Peak	V	-	-	-72.84	18.82	52.98	73.98	-21.00

Table 7-64. Radiated Spurious Emission Measurements CDD

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 291 of 431

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Plot 7-460. Radiated Spurious Emissions above 1GHz CDD (802.11ax (SU) – Ch. 11)

Mode: 802.11ax (SU)
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4924.00	Avg	V	-	-	-80.62	7.13	33.51	53.98	-20.47
4924.00	Peak	V	-	-	-69.47	7.13	44.66	73.98	-29.32
7386.00	Avg	V	-	-	-81.62	10.79	36.17	53.98	-17.81
7386.00	Peak	V	-	-	-69.84	10.79	47.95	73.98	-26.03
12310.00	Avg	V	-	-	-83.68	18.48	41.80	53.98	-12.18
12310.00	Peak	V	-	-	-72.13	18.48	53.35	73.98	-20.63

Table 7-65. Radiated Spurious Emission Measurements CDD

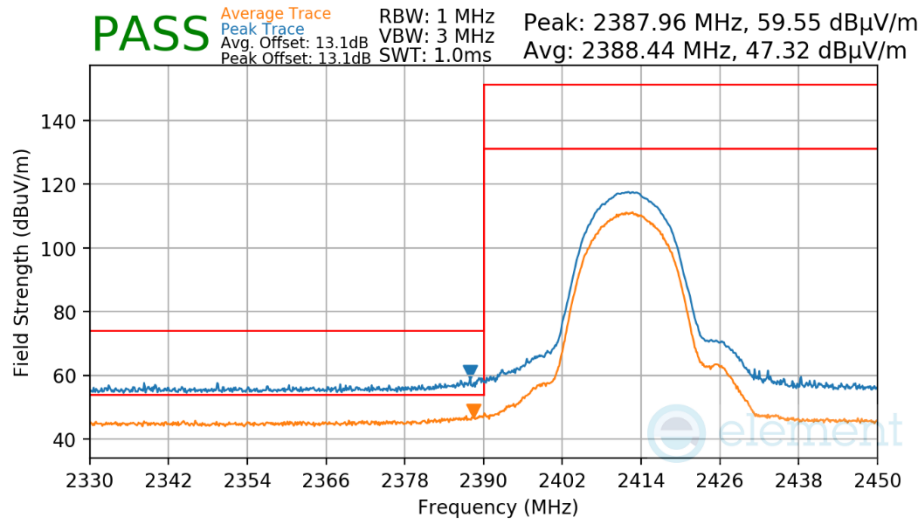
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 292 of 431

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7.7.4 Antenna WF8 Radiated Restricted Band Edge Measurements

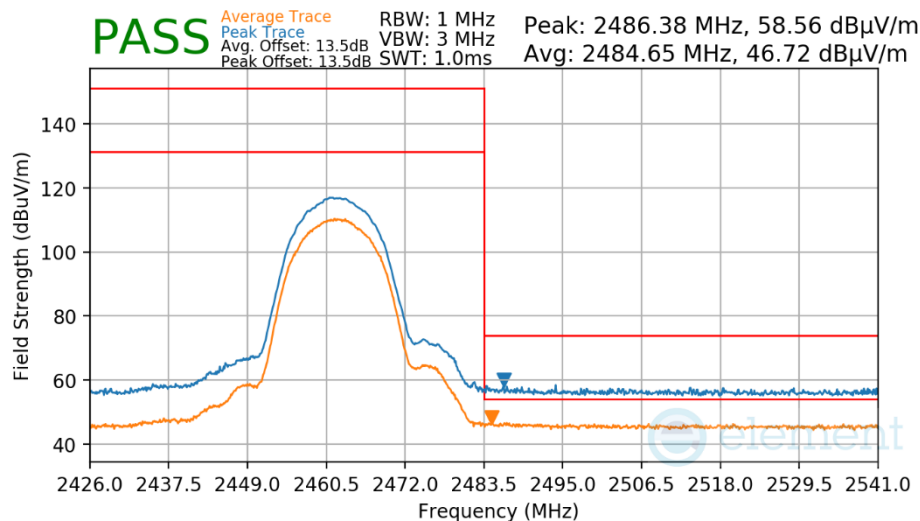
§15.205 §15.209; RSS-Gen [8.9]

Mode	802.11b
Data Rate	11Mbps
Distance of Measurement	3 Meters
Operating Frequency	2412MHz
Channel	1



Plot 7-461 Radiated Restricted Lower Band Edge Measurement Antenna WF8

Mode	802.11b
Data Rate	11Mbps
Distance of Measurement	3 Meters
Operating Frequency	2462MHz
Channel	11

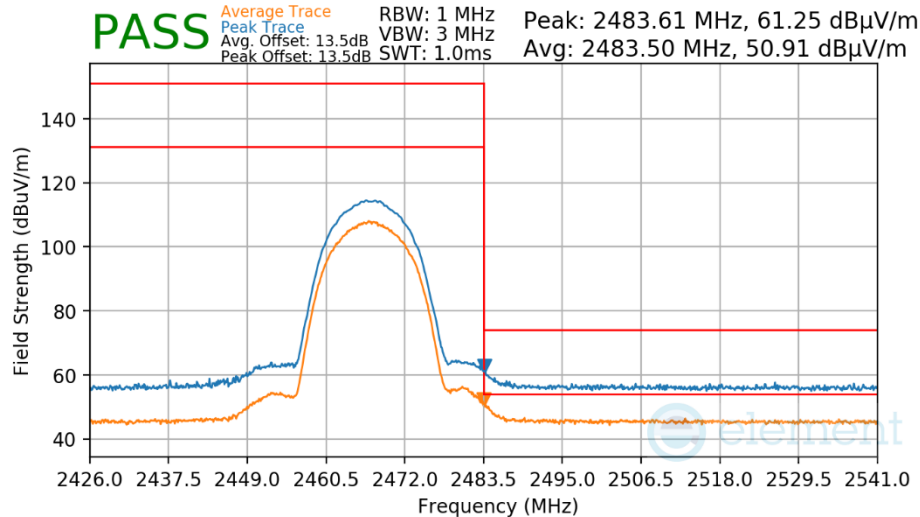


Plot 7-462 Radiated Restricted Upper Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 293 of 431

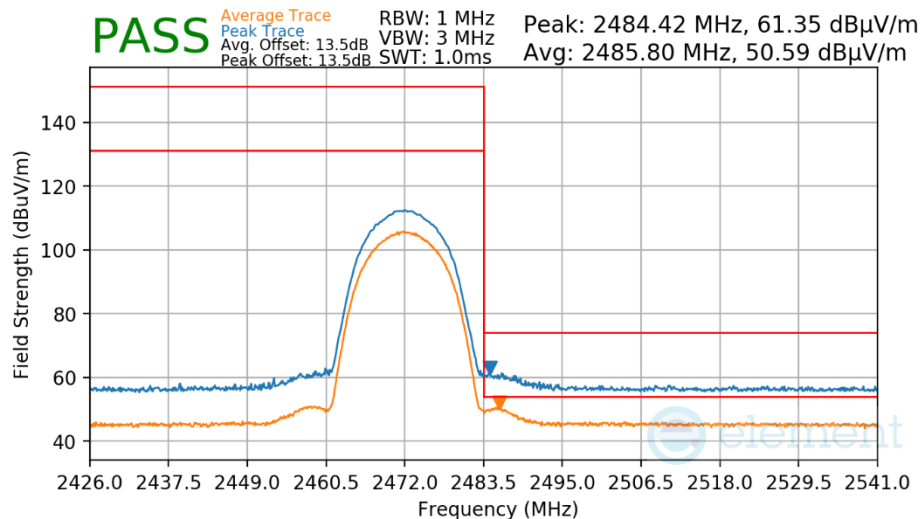
V 10.6 09/14/2023

Mode 802.11b
Data Rate 11Mbps
Distance of Measurement 3 Meters
Operating Frequency 2467MHz
Channel 12



Plot 7-463 Radiated Restricted Upper Band Edge Measurement Antenna WF8

Mode 802.11b
Data Rate 11Mbps
Distance of Measurement 3 Meters
Operating Frequency 2472MHz
Channel 13

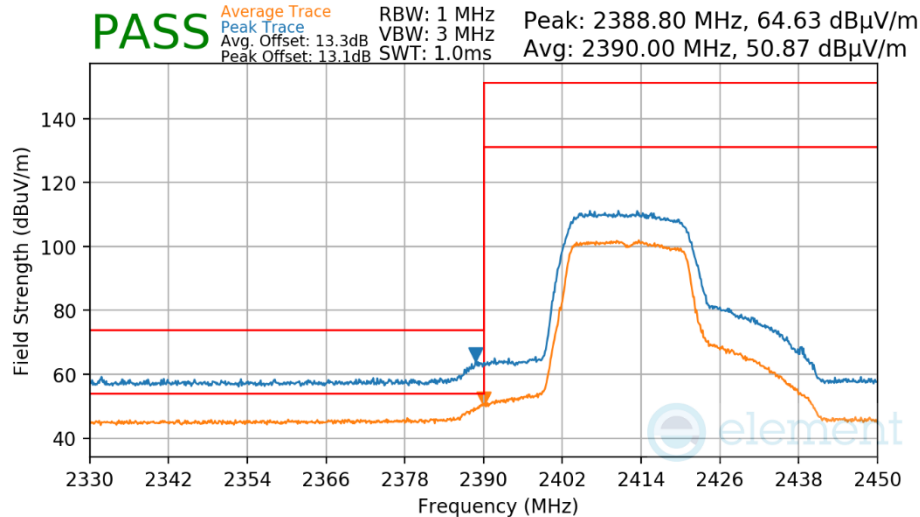


Plot 7-464 Radiated Restricted Upper Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 294 of 431

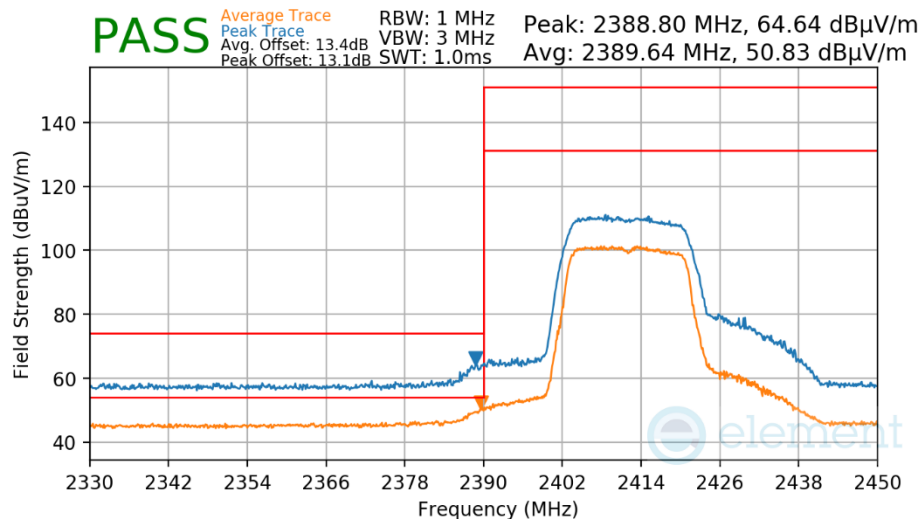
V 10.6 09/14/2023

Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2412MHz
Channel 1



Plot 7-465 Radiated Restricted Lower Band Edge Measurement Antenna WF8

Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2412MHz
Channel 1

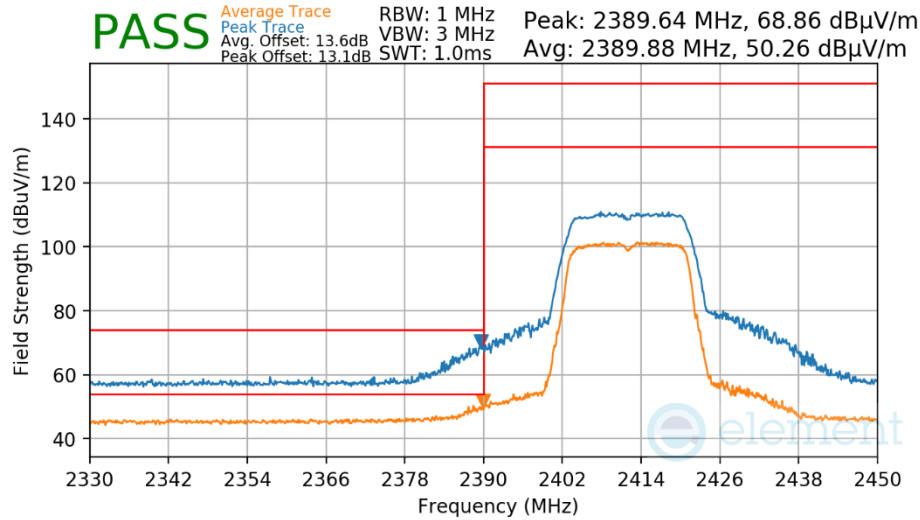


Plot 7-466 Radiated Restricted Lower Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 295 of 431

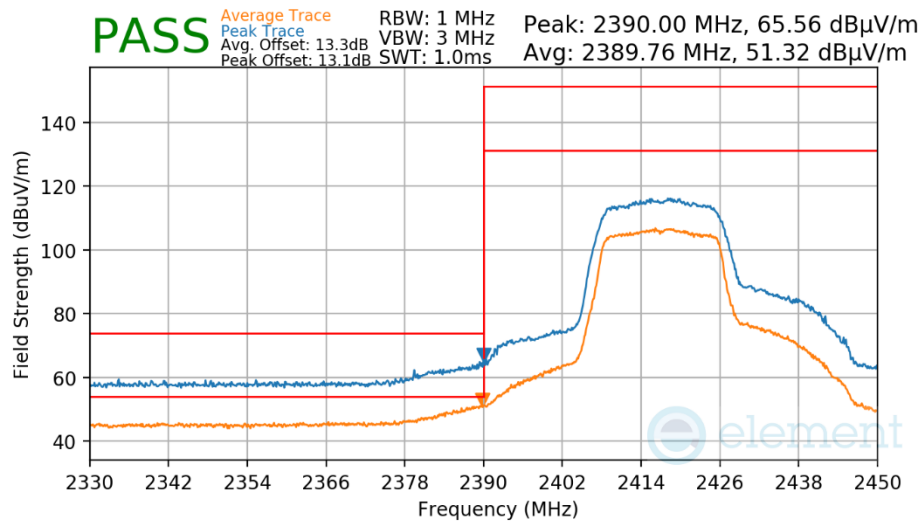
V 10.6 09/14/2023

Mode 802.11n
Data Rate MCS7
Distance of Measurement 3 Meters
Operating Frequency 2412MHz
Channel 1



Plot 7-467 Radiated Restricted Lower Band Edge Measurement Antenna WF8

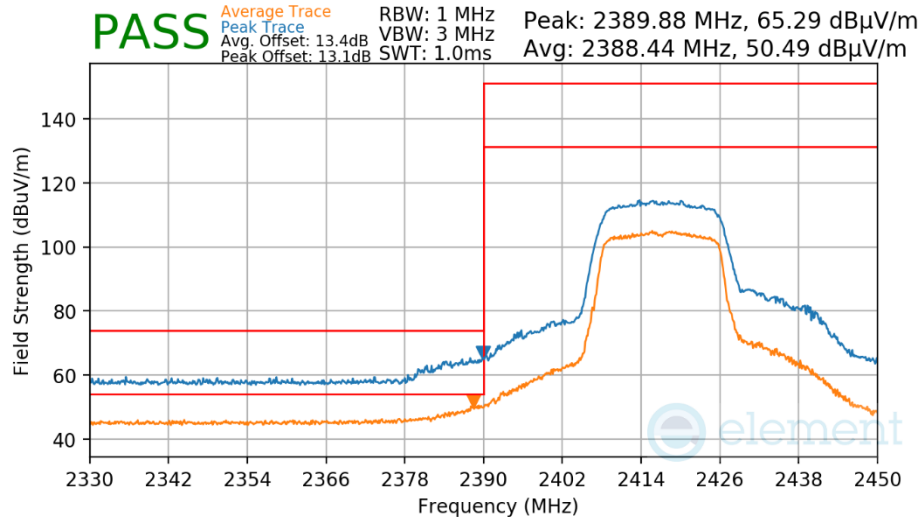
Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2417MHz
Channel 2



Plot 7-468 Radiated Restricted Lower Band Edge Measurement Antenna WF8

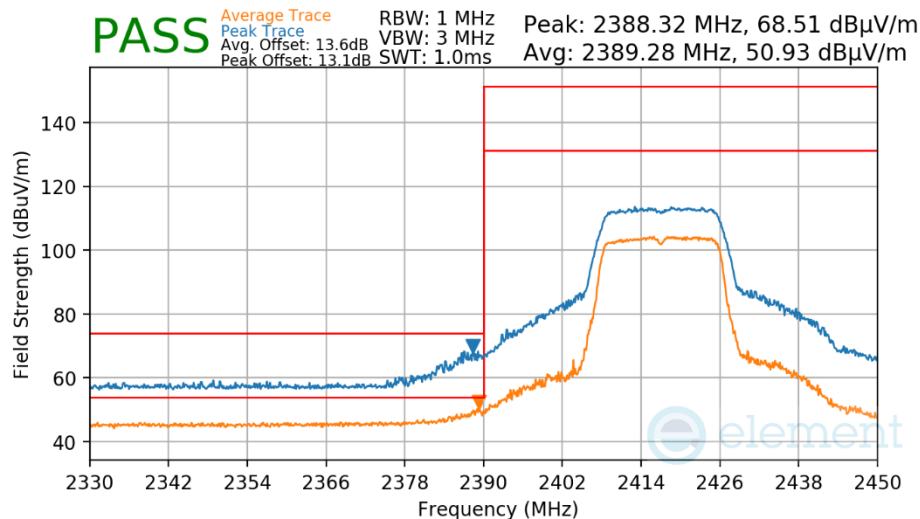
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 296 of 431

Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2417MHz
Channel 2



Plot 7-469 Radiated Restricted Lower Band Edge Measurement Antenna WF8

Mode 802.11n
Data Rate MCS7
Distance of Measurement 3 Meters
Operating Frequency 2417MHz
Channel 2

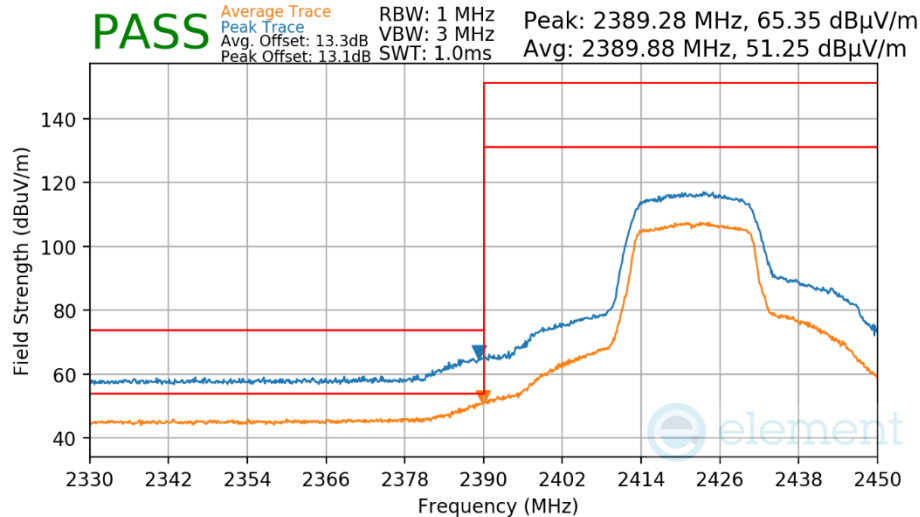


Plot 7-470 Radiated Restricted Lower Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 297 of 431

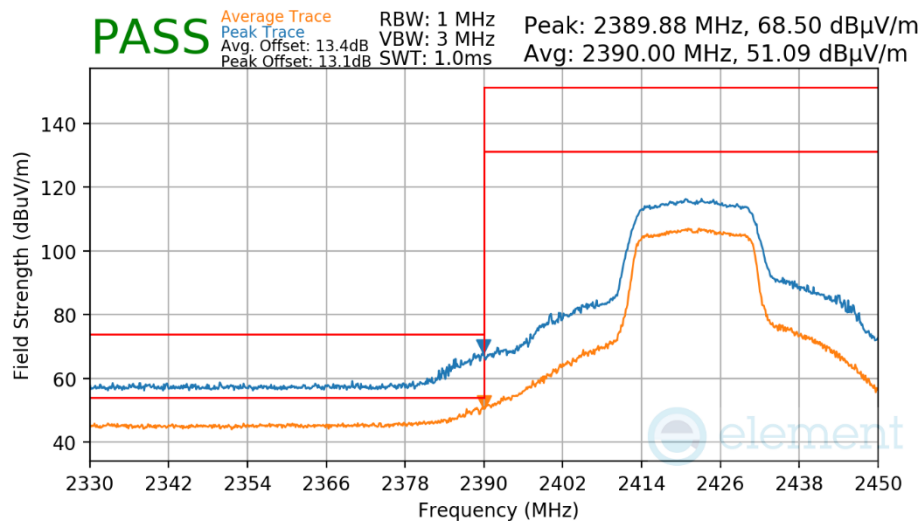
V 10.6 09/14/2023

Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2422MHz
Channel 3



Plot 7-471 Radiated Restricted Lower Band Edge Measurement Antenna WF8

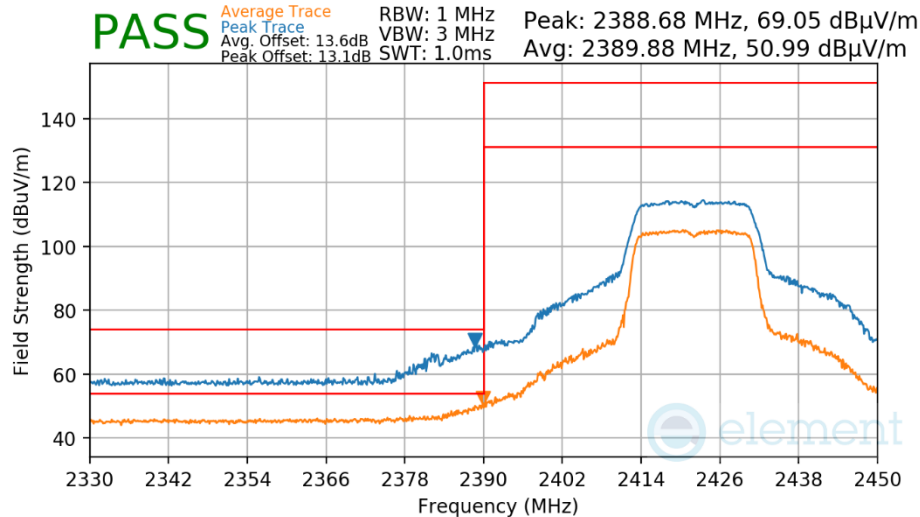
Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2422MHz
Channel 3



Plot 7-472 Radiated Restricted Lower Band Edge Measurement Antenna WF8

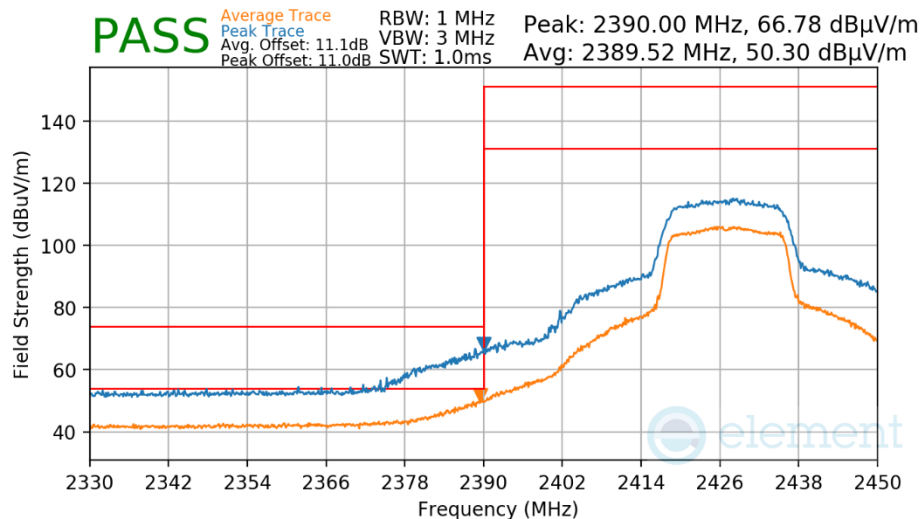
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 298 of 431

Mode 802.11n
Data Rate MCS7
Distance of Measurement 3 Meters
Operating Frequency 2422MHz
Channel 3



Plot 7-473 Radiated Restricted Lower Band Edge Measurement Antenna WF8

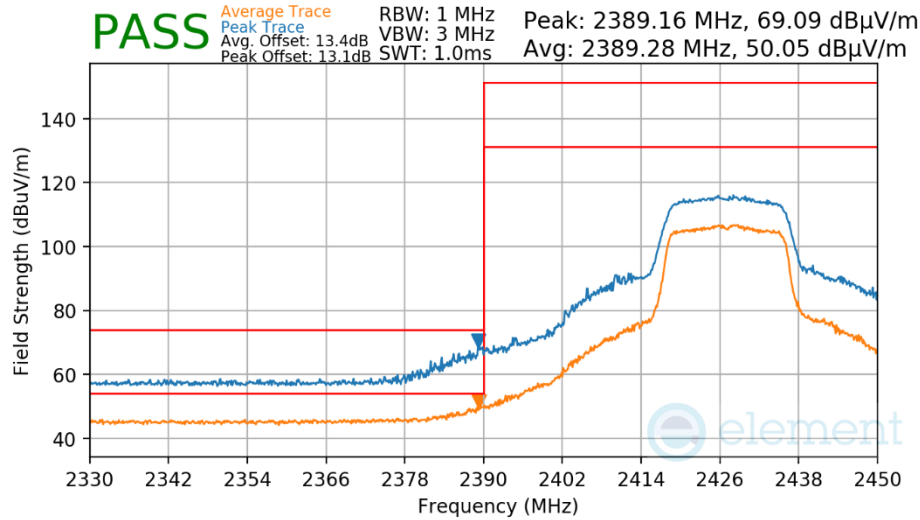
Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2427MHz
Channel 4



Plot 7-474 Radiated Restricted Lower Band Edge Measurement Antenna WF8

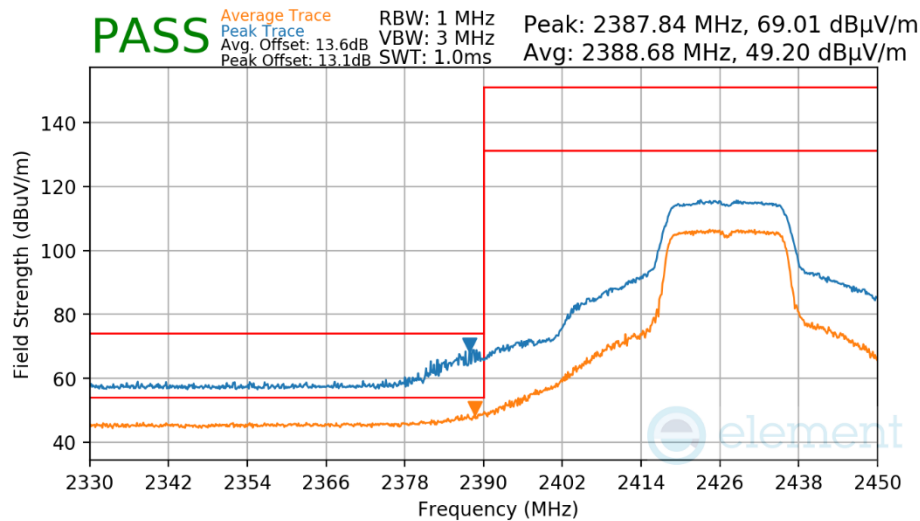
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 299 of 431

Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2427MHz
Channel 4



Plot 7-475 Radiated Restricted Lower Band Edge Measurement Antenna WF8

Mode 802.11n
Data Rate MCS7
Distance of Measurement 3 Meters
Operating Frequency 2427MHz
Channel 4

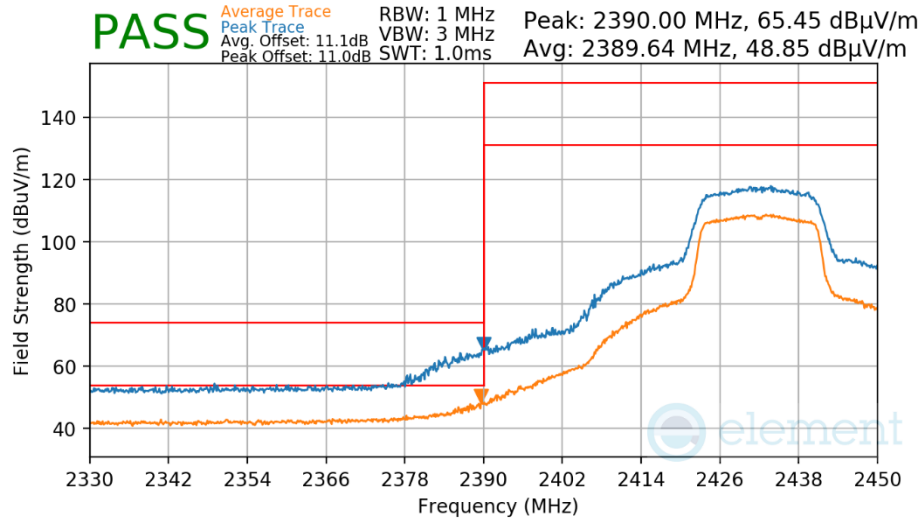


Plot 7-476 Radiated Restricted Lower Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 300 of 431

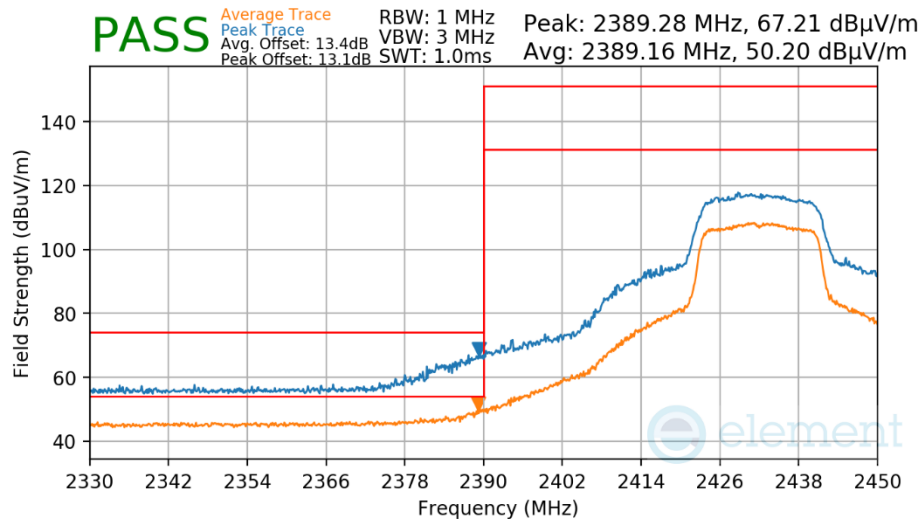
V 10.6 09/14/2023

Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2432MHz
Channel 5



Plot 7-477 Radiated Restricted Lower Band Edge Measurement Antenna WF8

Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2432MHz
Channel 5

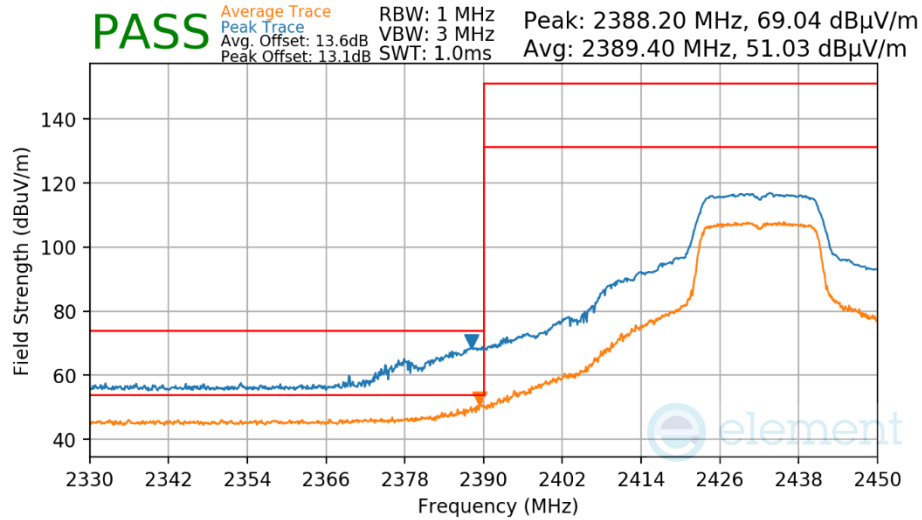


Plot 7-478 Radiated Restricted Lower Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 301 of 431

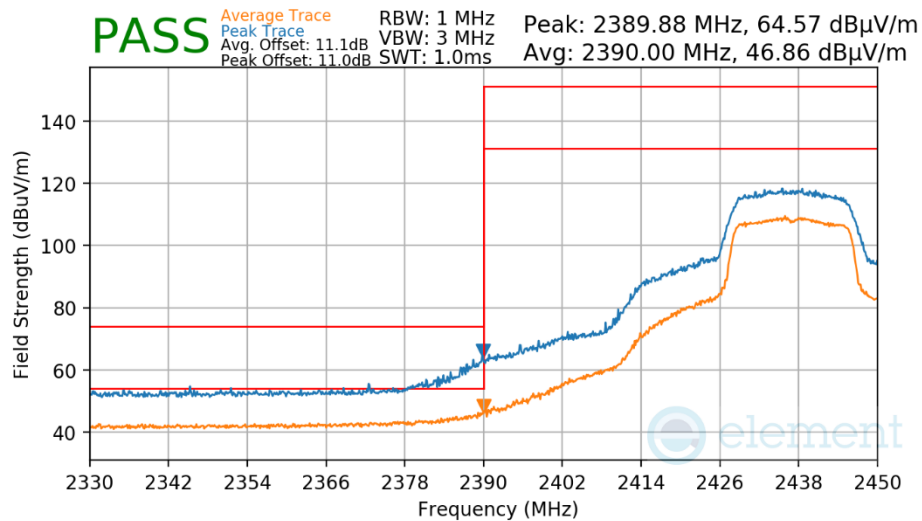
V 10.6 09/14/2023

Mode 802.11n
Data Rate MCS7
Distance of Measurement 3 Meters
Operating Frequency 2432MHz
Channel 5



Plot 7-479 Radiated Restricted Lower Band Edge Measurement Antenna WF8

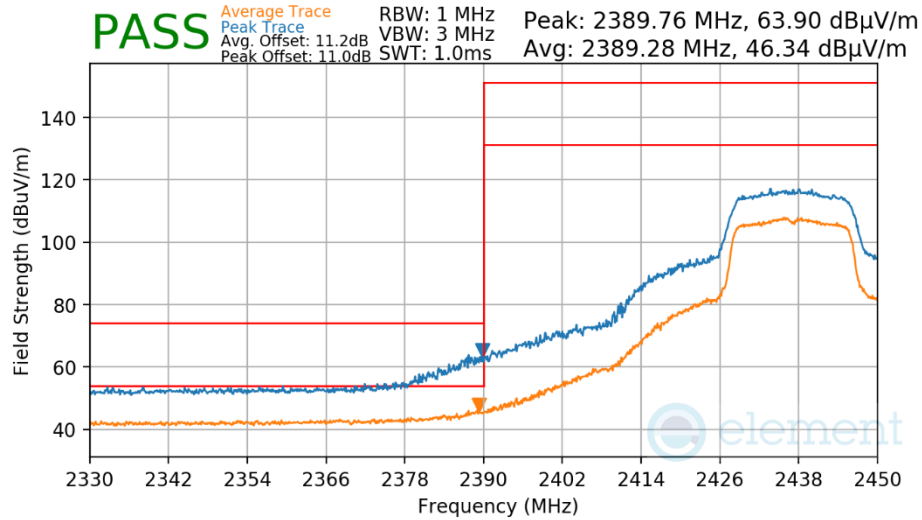
Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2437MHz
Channel 6



Plot 7-480 Radiated Restricted Lower Band Edge Measurement Antenna WF8

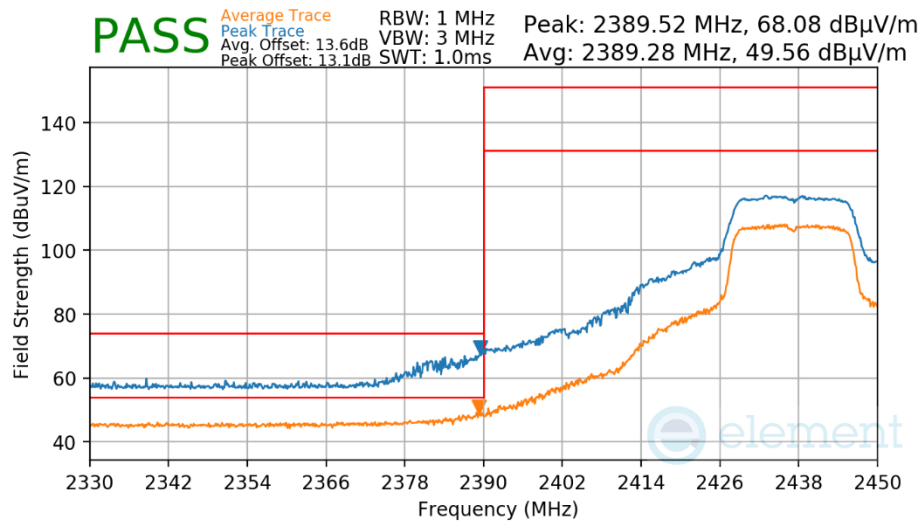
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 302 of 431

Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2437MHz
Channel 6



Plot 7-481 Radiated Restricted Lower Band Edge Measurement Antenna WF8

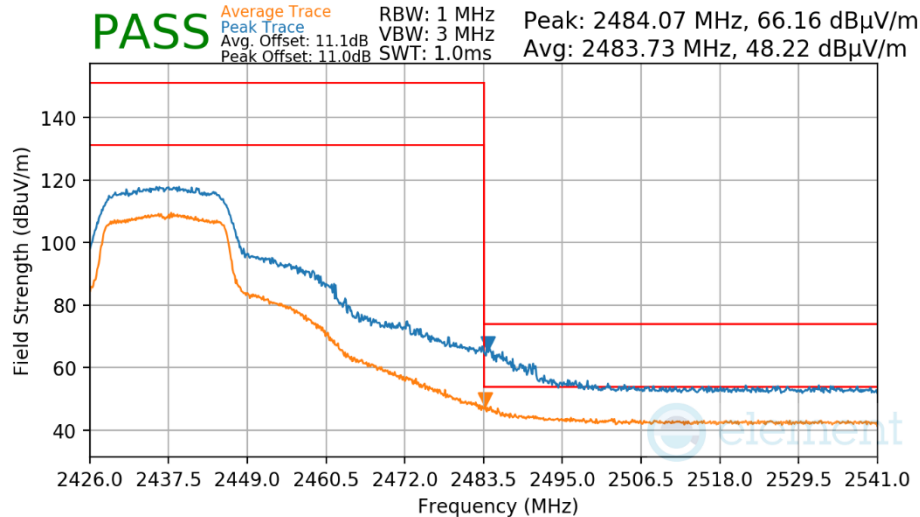
Mode 802.11n
Data Rate MCS7
Distance of Measurement 3 Meters
Operating Frequency 2437MHz
Channel 6



Plot 7-482 Radiated Restricted Lower Band Edge Measurement Antenna WF8

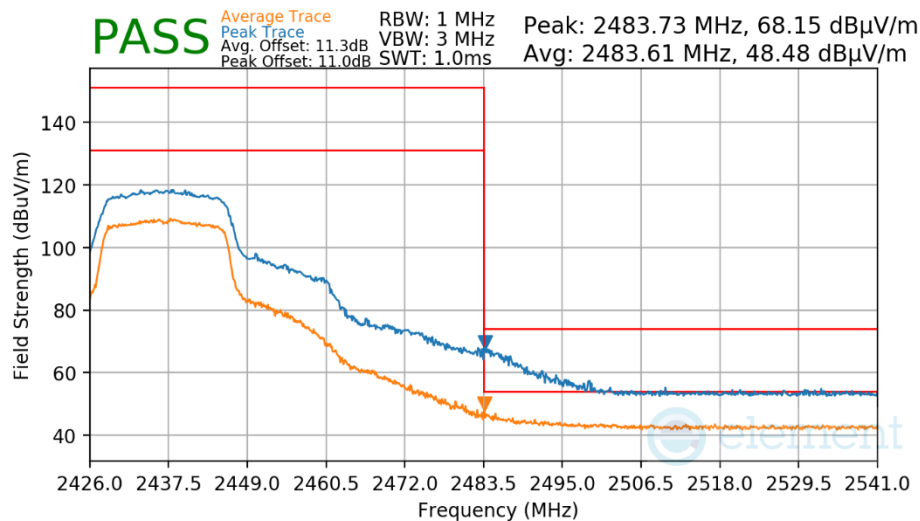
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 303 of 431

Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2437MHz
Channel 6



Plot 7-483 Radiated Restricted Upper Band Edge Measurement Antenna WF8

Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2437MHz
Channel 6

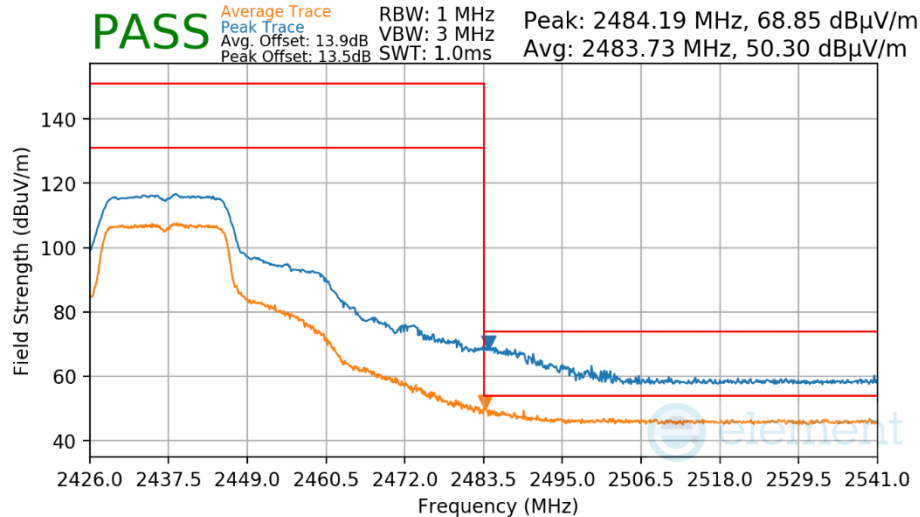


Plot 7-484 Radiated Restricted Upper Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 304 of 431

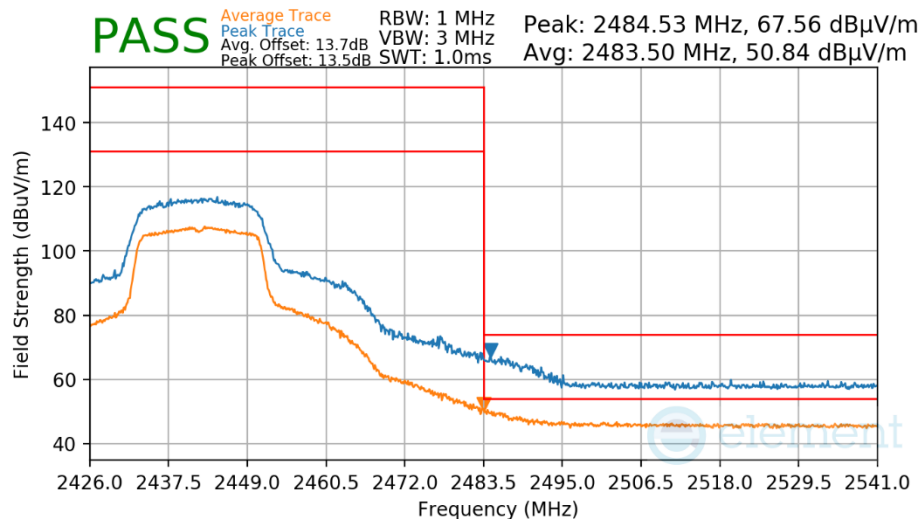
V 10.6 09/14/2023

Mode 802.11n
Data Rate MCS7
Distance of Measurement 3 Meters
Operating Frequency 2437MHz
Channel 6



Plot 7-485 Radiated Restricted Upper Band Edge Measurement Antenna WF8

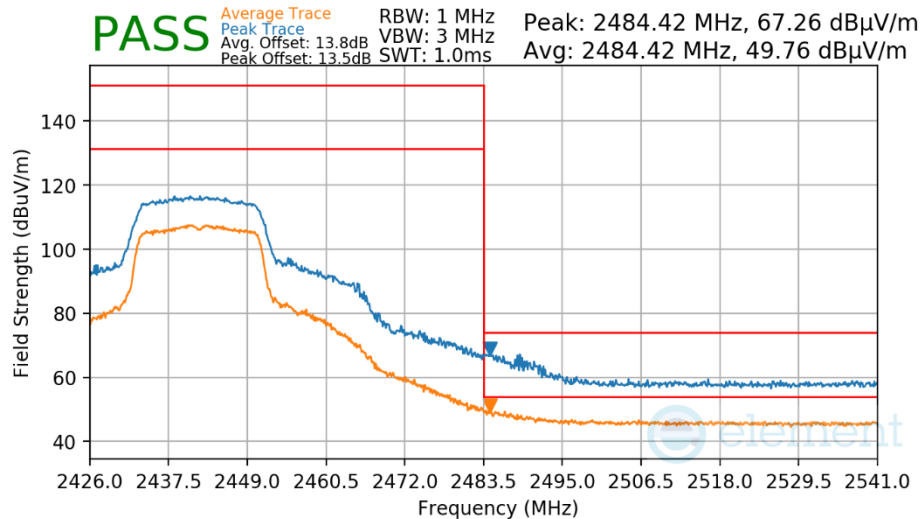
Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2442MHz
Channel 7



Plot 7-486 Radiated Restricted Upper Band Edge Measurement Antenna WF8

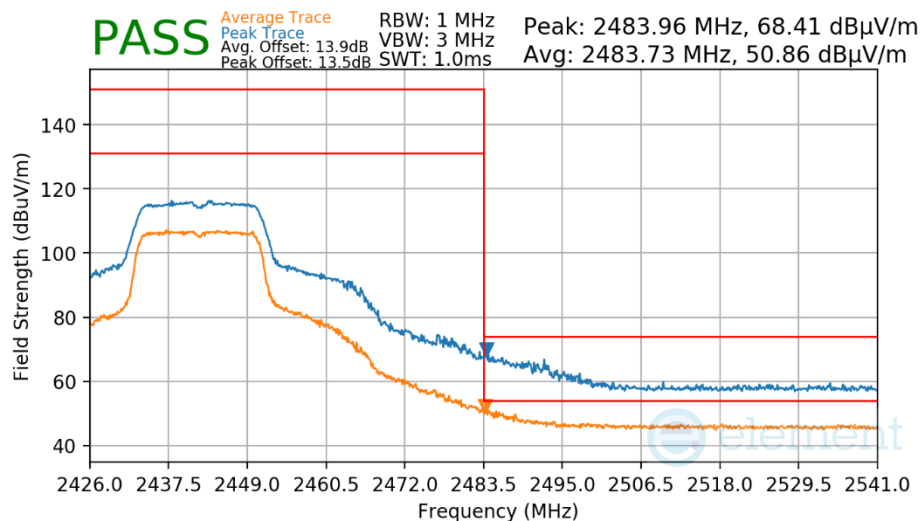
FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 305 of 431

Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2442MHz
Channel 7



Plot 7-487 Radiated Restricted Upper Band Edge Measurement Antenna WF8

Mode 802.11n
Data Rate MCS7
Distance of Measurement 3 Meters
Operating Frequency 2442MHz
Channel 7

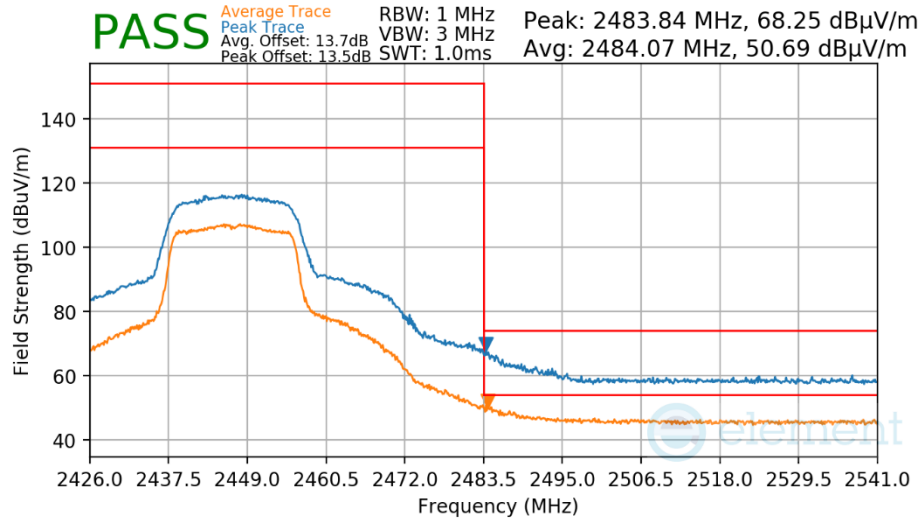


Plot 7-488 Radiated Restricted Upper Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 306 of 431

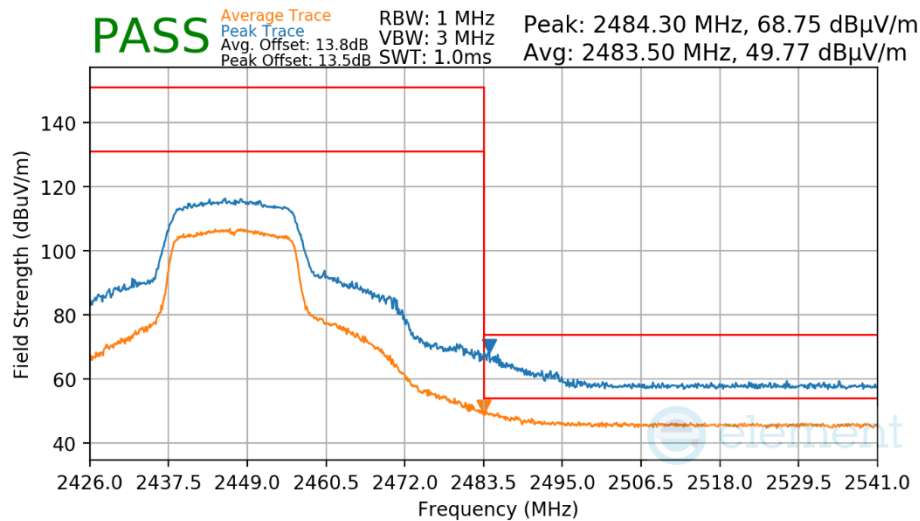
V 10.6 09/14/2023

Mode 802.11n
Data Rate MCS2
Distance of Measurement 3 Meters
Operating Frequency 2447MHz
Channel 8



Plot 7-489 Radiated Restricted Upper Band Edge Measurement Antenna WF8

Mode 802.11n
Data Rate MCS4
Distance of Measurement 3 Meters
Operating Frequency 2447MHz
Channel 8



Plot 7-490 Radiated Restricted Upper Band Edge Measurement Antenna WF8

FCC ID: BCGA2993 IC: 579C-A2993		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2405200017-03-R1.BCG	Test Dates: 5/20/2024 - 7/01/2024	EUT Type: Tablet Device	Page 307 of 431

V 10.6 09/14/2023